

EXCELCHEM
Environmental Labs

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ELAP Certificate No. : 2119

01 June 2012

Calvin Yang

RWQC Central Valley

11020 Sun Center Dr. #200

Rancho Cordova, CA 95670

RE: MUN Evaluation

Work order number:1205317

Enclosed are the results of analyses for samples received by the laboratory on 05/29/12 13:00. All Quality Control results are within acceptable limits except where noted as a case narrative. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

John Somers, Lab Director

Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AWL 120529-29	1205317-01	Water	05/29/12 08:19	05/29/12 13:00
AWL 120529-30	1205317-02	Water	05/29/12 09:52	05/29/12 13:00
AWL 120529-31	1205317-03	Water	05/29/12 10:19	05/29/12 13:00
AWL 120529-32	1205317-04	Water	05/29/12 10:26	05/29/12 13:00
AWL 120529-33	1205317-05	Water	05/29/12 10:47	05/29/12 13:00
AWL 120529-34	1205317-06	Water	05/29/12 10:55	05/29/12 13:00
AWL 120529-35	1205317-07	Water	05/29/12 11:10	05/29/12 13:00
AWL 120529-36	1205317-08	Water	05/29/12 09:17	05/29/12 13:00

Excelchem Environmental Lab.



Laboratory Representative

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20

AWL 120529-29 1205317-01 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

Gasoline Range Hydrocarbons	ND	50.0	9.0	ug/l	1	AVE0365	05/29/12	05/29/12	EPA 8260B	
Ethanol	ND	20.0	2.6	"	1	"	"	"	"	
TBA	ND	5.0	1.2	"	1	"	"	"	"	
Methyl tert-Butyl Ether	ND	0.5	0.07	"	1	"	"	"	"	
Di-isopropyl ether	ND	0.5	0.07	"	1	"	"	"	"	
Ethyl tert-Butyl Ether	ND	0.5	0.06	"	1	"	"	"	"	
Tert-Amyl Methyl Ether	ND	0.5	0.08	"	1	"	"	"	"	
Dichlorodifluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Chloromethane	ND	0.5	0.1	"	1	"	"	"	"	
Vinyl chloride	ND	0.5	0.08	"	1	"	"	"	"	
Bromomethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroethane	ND	0.5	0.2	"	1	"	"	"	"	
Trichlorofluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichlorotrifluoroethane	ND	1.0	0.1	"	1	"	"	"	"	
Acetone	ND	5.0	0.6	"	1	"	"	"	"	
1,1-Dichloroethene	ND	0.5	0.05	"	1	"	"	"	"	
Iodomethane	ND	0.5	0.09	"	1	"	"	"	"	
Methylene chloride	ND	5.0	0.1	"	1	"	"	"	"	
Carbon disulfide	ND	0.5	0.08	"	1	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
1,1-Dichloroethane	ND	0.5	0.07	"	1	"	"	"	"	
2-Butanone	ND	5.0	0.4	"	1	"	"	"	"	
2,2-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
Bromochloromethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroform	ND	0.5	0.1	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	0.08	"	1	"	"	"	"	
Carbon tetrachloride	ND	0.5	0.1	"	1	"	"	"	"	
1,1-Dichloropropene	ND	0.5	0.08	"	1	"	"	"	"	
Benzene	ND	0.5	0.06	"	1	"	"	"	"	
1,2-Dichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Dibromomethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichloroethene	ND	0.5	0.09	"	1	"	"	"	"	
Bromodichloromethane	ND	0.5	0.1	"	1	"	"	"	"	

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RWQC Central Valley
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Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20

AWL 120529-29 1205317-01 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

1,2-Dichloropropane	ND	0.5	0.1	ug/l	1	AVE0365	05/29/12	05/29/12	"	
cis-1,3-Dichloropropene	ND	0.5	0.08	"	1	"	"	"	"	
4-Methyl-2-pentanone	ND	5.0	0.3	"	1	"	"	"	"	
Toluene	ND	0.5	0.09	"	1	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.5	0.1	"	1	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Tetrachloroethene	ND	0.5	0.2	"	1	"	"	"	"	
1,3-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
2-Hexanone	ND	5.0	0.4	"	1	"	"	"	"	
Dibromochloromethane	ND	0.5	0.08	"	1	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.5	0.09	"	1	"	"	"	"	
Chlorobenzene	ND	0.5	0.08	"	1	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	0.1	"	1	"	"	"	"	
Ethylbenzene	ND	0.5	0.06	"	1	"	"	"	"	
m,p-Xylene	ND	1.0	0.1	"	1	"	"	"	"	
o-Xylene	ND	0.5	0.08	"	1	"	"	"	"	
Xylenes, total	ND	1.0	0.2	"	1	"	"	"	"	
Styrene	ND	0.5	0.08	"	1	"	"	"	"	
Bromoform	ND	0.5	0.1	"	1	"	"	"	"	
Isopropylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
Bromobenzene	ND	0.5	0.09	"	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	0.2	"	1	"	"	"	"	
1,2,3-Trichloropropane	ND	0.5	0.1	"	1	"	"	"	"	
n-Propylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
2-Chlorotoluene	ND	0.5	0.1	"	1	"	"	"	"	
4-Chlorotoluene	ND	0.5	0.2	"	1	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
tert-Butylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
sec-Butylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
1,3-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
4-Isopropyltoluene	ND	0.5	0.1	"	1	"	"	"	"	
1,4-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	

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Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20

AWL 120529-29 1205317-01 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

n-Butylbenzene	ND	0.5	0.08	ug/l	1	AVE0365	05/29/12	05/29/12	"	
1,2-Dibromo-3-chloropropane	ND	0.5	0.3	"	1	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.5	0.09	"	1	"	"	"	"	
Hexachlorobutadiene	ND	0.5	0.2	"	1	"	"	"	"	
Naphthalene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>	<i>99.4 %</i>	% Recovery Limits		<i>70-130</i>						"
<i>Surrogate: Toluene-d8</i>	<i>98.8 %</i>	% Recovery Limits		<i>70-130</i>						"
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95.9 %</i>	% Recovery Limits		<i>70-130</i>						"

Ion Chromatography

Nitrate as Nitrogen	ND	0.11	0.02	mg/L	1	AVE0362	05/30/12	05/30/12	EPA 300.0	
Nitrite as Nitrogen	ND	0.15	0.02	"	1	"	"	"	"	

Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVE0361	05/29/12	05/29/12	SM5540C	
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Total Recoverable Metals

Aluminum	477	50.0	24.5	ug/l	1	AVE0369	05/30/12	05/31/12	EPA 200.7	
Arsenic	ND	10.0	1.0	"	1	"	"	"	"	
Boron	268	50.0	0.8	"	1	"	"	"	"	
Iron	530	20.0	11.5	"	1	"	"	"	"	
Manganese	90.5	10.0	0.6	"	1	"	"	"	"	
Sodium	170000	200	120	"	1	"	"	"	"	

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Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20

AWL 120529-30 1205317-02 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

Gasoline Range Hydrocarbons	ND	50.0	9.0	ug/l	1	AVE0365	05/29/12	05/30/12	EPA 8260B	
Ethanol	ND	20.0	2.6	"	1	"	"	"	"	
TBA	ND	5.0	1.2	"	1	"	"	"	"	
Methyl tert-Butyl Ether	ND	0.5	0.07	"	1	"	"	"	"	
Di-isopropyl ether	ND	0.5	0.07	"	1	"	"	"	"	
Ethyl tert-Butyl Ether	ND	0.5	0.06	"	1	"	"	"	"	
Tert-Amyl Methyl Ether	ND	0.5	0.08	"	1	"	"	"	"	
Dichlorodifluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Chloromethane	ND	0.5	0.1	"	1	"	"	"	"	
Vinyl chloride	ND	0.5	0.08	"	1	"	"	"	"	
Bromomethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroethane	ND	0.5	0.2	"	1	"	"	"	"	
Trichlorofluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichlorotrifluoroethane	ND	1.0	0.1	"	1	"	"	"	"	
Acetone	ND	5.0	0.6	"	1	"	"	"	"	
1,1-Dichloroethene	ND	0.5	0.05	"	1	"	"	"	"	
Iodomethane	ND	0.5	0.09	"	1	"	"	"	"	
Methylene chloride	ND	5.0	0.1	"	1	"	"	"	"	
Carbon disulfide	ND	0.5	0.08	"	1	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
1,1-Dichloroethane	ND	0.5	0.07	"	1	"	"	"	"	
2-Butanone	ND	5.0	0.4	"	1	"	"	"	"	
2,2-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
Bromochloromethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroform	ND	0.5	0.1	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	0.08	"	1	"	"	"	"	
Carbon tetrachloride	ND	0.5	0.1	"	1	"	"	"	"	
1,1-Dichloropropene	ND	0.5	0.08	"	1	"	"	"	"	
Benzene	ND	0.5	0.06	"	1	"	"	"	"	
1,2-Dichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Dibromomethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichloroethene	ND	0.5	0.09	"	1	"	"	"	"	
Bromodichloromethane	ND	0.5	0.1	"	1	"	"	"	"	

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20


AWL 120529-30 1205317-02 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

1,2-Dichloropropane	ND	0.5	0.1	ug/l	1	AVE0365	05/29/12	05/30/12	"	
cis-1,3-Dichloropropene	ND	0.5	0.08	"	1	"	"	"	"	
4-Methyl-2-pentanone	ND	5.0	0.3	"	1	"	"	"	"	
Toluene	ND	0.5	0.09	"	1	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.5	0.1	"	1	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Tetrachloroethene	ND	0.5	0.2	"	1	"	"	"	"	
1,3-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
2-Hexanone	ND	5.0	0.4	"	1	"	"	"	"	
Dibromochloromethane	ND	0.5	0.08	"	1	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.5	0.09	"	1	"	"	"	"	
Chlorobenzene	ND	0.5	0.08	"	1	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	0.1	"	1	"	"	"	"	
Ethylbenzene	ND	0.5	0.06	"	1	"	"	"	"	
m,p-Xylene	ND	1.0	0.1	"	1	"	"	"	"	
o-Xylene	ND	0.5	0.08	"	1	"	"	"	"	
Xylenes, total	ND	1.0	0.2	"	1	"	"	"	"	
Styrene	ND	0.5	0.08	"	1	"	"	"	"	
Bromoform	ND	0.5	0.1	"	1	"	"	"	"	
Isopropylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
Bromobenzene	ND	0.5	0.09	"	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	0.2	"	1	"	"	"	"	
1,2,3-Trichloropropane	ND	0.5	0.1	"	1	"	"	"	"	
n-Propylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
2-Chlorotoluene	ND	0.5	0.1	"	1	"	"	"	"	
4-Chlorotoluene	ND	0.5	0.2	"	1	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
tert-Butylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
sec-Butylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
1,3-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
4-Isopropyltoluene	ND	0.5	0.1	"	1	"	"	"	"	
1,4-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20

AWL 120529-30 1205317-02 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

n-Butylbenzene	ND	0.5	0.08	ug/l	1	AVE0365	05/29/12	05/30/12	"	
1,2-Dibromo-3-chloropropane	ND	0.5	0.3	"	1	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.5	0.09	"	1	"	"	"	"	
Hexachlorobutadiene	ND	0.5	0.2	"	1	"	"	"	"	
Naphthalene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>	<i>102 %</i>	% Recovery Limits		<i>70-130</i>					"	
<i>Surrogate: Toluene-d8</i>	<i>99.8 %</i>	% Recovery Limits		<i>70-130</i>					"	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95.4 %</i>	% Recovery Limits		<i>70-130</i>					"	

Ion Chromatography

Nitrite as Nitrogen	ND	0.15	0.02	mg/L	1	AVE0362	05/30/12	05/30/12	EPA 300.0	
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Wet Chemistry

MBAS	0.143	0.100	0.0600	mg/L	1	AVE0361	05/29/12	05/29/12	SM5540C	
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Total Recoverable Metals

Aluminum	ND	50.0	24.5	ug/l	1	AVE0369	05/30/12	05/31/12	EPA 200.7	
Arsenic	ND	10.0	1.0	"	1	"	"	"	"	
Boron	434	50.0	0.8	"	1	"	"	"	"	
Iron	31.6	20.0	11.5	"	1	"	"	"	"	
Manganese	ND	10.0	0.6	"	1	"	"	"	"	

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20

AWL 120529-30 1205317-02RE1 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate as Nitrogen	24.6	1.10	0.20	mg/L	10	AVE0362	05/30/12	05/30/12	EPA 300.0
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Total Recoverable Metals

Sodium	371000	2000	1200	ug/l	10	AVE0369	05/30/12	05/31/12	EPA 200.7
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Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20


AWL 120529-31 1205317-03 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

Gasoline Range Hydrocarbons	ND	50.0	9.0	ug/l	1	AVE0365	05/29/12	05/30/12	EPA 8260B	
Ethanol	ND	20.0	2.6	"	1	"	"	"	"	
TBA	ND	5.0	1.2	"	1	"	"	"	"	
Methyl tert-Butyl Ether	ND	0.5	0.07	"	1	"	"	"	"	
Di-isopropyl ether	ND	0.5	0.07	"	1	"	"	"	"	
Ethyl tert-Butyl Ether	ND	0.5	0.06	"	1	"	"	"	"	
Tert-Amyl Methyl Ether	ND	0.5	0.08	"	1	"	"	"	"	
Dichlorodifluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Chloromethane	ND	0.5	0.1	"	1	"	"	"	"	
Vinyl chloride	ND	0.5	0.08	"	1	"	"	"	"	
Bromomethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroethane	ND	0.5	0.2	"	1	"	"	"	"	
Trichlorofluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichlorotrifluoroethane	ND	1.0	0.1	"	1	"	"	"	"	
Acetone	ND	5.0	0.6	"	1	"	"	"	"	
1,1-Dichloroethene	ND	0.5	0.05	"	1	"	"	"	"	
Iodomethane	ND	0.5	0.09	"	1	"	"	"	"	
Methylene chloride	ND	5.0	0.1	"	1	"	"	"	"	
Carbon disulfide	ND	0.5	0.08	"	1	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
1,1-Dichloroethane	ND	0.5	0.07	"	1	"	"	"	"	
2-Butanone	ND	5.0	0.4	"	1	"	"	"	"	
2,2-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
Bromochloromethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroform	ND	0.5	0.1	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	0.08	"	1	"	"	"	"	
Carbon tetrachloride	ND	0.5	0.1	"	1	"	"	"	"	
1,1-Dichloropropene	ND	0.5	0.08	"	1	"	"	"	"	
Benzene	ND	0.5	0.06	"	1	"	"	"	"	
1,2-Dichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Dibromomethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichloroethene	ND	0.5	0.09	"	1	"	"	"	"	
Bromodichloromethane	ND	0.5	0.1	"	1	"	"	"	"	

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20


AWL 120529-31 1205317-03 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

1,2-Dichloropropane	ND	0.5	0.1	ug/l	1	AVE0365	05/29/12	05/30/12	"	
cis-1,3-Dichloropropene	ND	0.5	0.08	"	1	"	"	"	"	
4-Methyl-2-pentanone	ND	5.0	0.3	"	1	"	"	"	"	
Toluene	ND	0.5	0.09	"	1	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.5	0.1	"	1	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Tetrachloroethene	ND	0.5	0.2	"	1	"	"	"	"	
1,3-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
2-Hexanone	ND	5.0	0.4	"	1	"	"	"	"	
Dibromochloromethane	ND	0.5	0.08	"	1	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.5	0.09	"	1	"	"	"	"	
Chlorobenzene	ND	0.5	0.08	"	1	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	0.1	"	1	"	"	"	"	
Ethylbenzene	ND	0.5	0.06	"	1	"	"	"	"	
m,p-Xylene	ND	1.0	0.1	"	1	"	"	"	"	
o-Xylene	ND	0.5	0.08	"	1	"	"	"	"	
Xylenes, total	ND	1.0	0.2	"	1	"	"	"	"	
Styrene	ND	0.5	0.08	"	1	"	"	"	"	
Bromoform	ND	0.5	0.1	"	1	"	"	"	"	
Isopropylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
Bromobenzene	ND	0.5	0.09	"	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	0.2	"	1	"	"	"	"	
1,2,3-Trichloropropane	ND	0.5	0.1	"	1	"	"	"	"	
n-Propylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
2-Chlorotoluene	ND	0.5	0.1	"	1	"	"	"	"	
4-Chlorotoluene	ND	0.5	0.2	"	1	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
tert-Butylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
sec-Butylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
1,3-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
4-Isopropyltoluene	ND	0.5	0.1	"	1	"	"	"	"	
1,4-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	

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RWQC Central Valley
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Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20

AWL 120529-31 1205317-03 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

n-Butylbenzene	ND	0.5	0.08	ug/l	1	AVE0365	05/29/12	05/30/12	"	
1,2-Dibromo-3-chloropropane	ND	0.5	0.3	"	1	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.5	0.09	"	1	"	"	"	"	
Hexachlorobutadiene	ND	0.5	0.2	"	1	"	"	"	"	
Naphthalene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>	<i>104 %</i>	% Recovery Limits		<i>70-130</i>						"
<i>Surrogate: Toluene-d8</i>	<i>99.3 %</i>	% Recovery Limits		<i>70-130</i>						"
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>94.6 %</i>	% Recovery Limits		<i>70-130</i>						"

Ion Chromatography

Nitrate as Nitrogen	3.41	0.11	0.02	mg/L	1	AVE0362	05/30/12	05/30/12	EPA 300.0	
Nitrite as Nitrogen	ND	0.15	0.02	"	1	"	"	"	"	

Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVE0361	05/29/12	05/29/12	SM5540C	
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Total Recoverable Metals

Aluminum	6180	50.0	24.5	ug/l	1	AVE0369	05/30/12	05/31/12	EPA 200.7	
Arsenic	ND	10.0	1.0	"	1	"	"	"	"	
Boron	307	50.0	0.8	"	1	"	"	"	"	
Iron	5300	20.0	11.5	"	1	"	"	"	"	
Manganese	287	10.0	0.6	"	1	"	"	"	"	

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20


AWL 120529-31 1205317-03RE1 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Total Recoverable Metals

Sodium	324000	2000	1200	ug/l	10	AVE0369	05/30/12	05/31/12	EPA 200.7	
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RWQC Central Valley
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Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20


AWL 120529-32 1205317-04 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

Gasoline Range Hydrocarbons	ND	50.0	9.0	ug/l	1	AVE0365	05/29/12	05/30/12	EPA 8260B	
Ethanol	ND	20.0	2.6	"	1	"	"	"	"	
TBA	ND	5.0	1.2	"	1	"	"	"	"	
Methyl tert-Butyl Ether	ND	0.5	0.07	"	1	"	"	"	"	
Di-isopropyl ether	ND	0.5	0.07	"	1	"	"	"	"	
Ethyl tert-Butyl Ether	ND	0.5	0.06	"	1	"	"	"	"	
Tert-Amyl Methyl Ether	ND	0.5	0.08	"	1	"	"	"	"	
Dichlorodifluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Chloromethane	ND	0.5	0.1	"	1	"	"	"	"	
Vinyl chloride	ND	0.5	0.08	"	1	"	"	"	"	
Bromomethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroethane	ND	0.5	0.2	"	1	"	"	"	"	
Trichlorofluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichlorotrifluoroethane	ND	1.0	0.1	"	1	"	"	"	"	
Acetone	ND	5.0	0.6	"	1	"	"	"	"	
1,1-Dichloroethene	ND	0.5	0.05	"	1	"	"	"	"	
Iodomethane	ND	0.5	0.09	"	1	"	"	"	"	
Methylene chloride	ND	5.0	0.1	"	1	"	"	"	"	
Carbon disulfide	ND	0.5	0.08	"	1	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
1,1-Dichloroethane	ND	0.5	0.07	"	1	"	"	"	"	
2-Butanone	ND	5.0	0.4	"	1	"	"	"	"	
2,2-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
Bromochloromethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroform	ND	0.5	0.1	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	0.08	"	1	"	"	"	"	
Carbon tetrachloride	ND	0.5	0.1	"	1	"	"	"	"	
1,1-Dichloropropene	ND	0.5	0.08	"	1	"	"	"	"	
Benzene	ND	0.5	0.06	"	1	"	"	"	"	
1,2-Dichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Dibromomethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichloroethene	ND	0.5	0.09	"	1	"	"	"	"	
Bromodichloromethane	ND	0.5	0.1	"	1	"	"	"	"	

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20

AWL 120529-32 1205317-04 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

1,2-Dichloropropane	ND	0.5	0.1	ug/l	1	AVE0365	05/29/12	05/30/12	"	
cis-1,3-Dichloropropene	ND	0.5	0.08	"	1	"	"	"	"	
4-Methyl-2-pentanone	ND	5.0	0.3	"	1	"	"	"	"	
Toluene	ND	0.5	0.09	"	1	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.5	0.1	"	1	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Tetrachloroethene	ND	0.5	0.2	"	1	"	"	"	"	
1,3-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
2-Hexanone	ND	5.0	0.4	"	1	"	"	"	"	
Dibromochloromethane	ND	0.5	0.08	"	1	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.5	0.09	"	1	"	"	"	"	
Chlorobenzene	ND	0.5	0.08	"	1	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	0.1	"	1	"	"	"	"	
Ethylbenzene	ND	0.5	0.06	"	1	"	"	"	"	
m,p-Xylene	ND	1.0	0.1	"	1	"	"	"	"	
o-Xylene	ND	0.5	0.08	"	1	"	"	"	"	
Xylenes, total	ND	1.0	0.2	"	1	"	"	"	"	
Styrene	ND	0.5	0.08	"	1	"	"	"	"	
Bromoform	ND	0.5	0.1	"	1	"	"	"	"	
Isopropylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
Bromobenzene	ND	0.5	0.09	"	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	0.2	"	1	"	"	"	"	
1,2,3-Trichloropropane	ND	0.5	0.1	"	1	"	"	"	"	
n-Propylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
2-Chlorotoluene	ND	0.5	0.1	"	1	"	"	"	"	
4-Chlorotoluene	ND	0.5	0.2	"	1	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
tert-Butylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
sec-Butylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
1,3-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
4-Isopropyltoluene	ND	0.5	0.1	"	1	"	"	"	"	
1,4-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20

AWL 120529-32 1205317-04 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

n-Butylbenzene	ND	0.5	0.08	ug/l	1	AVE0365	05/29/12	05/30/12	"	
1,2-Dibromo-3-chloropropane	ND	0.5	0.3	"	1	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.5	0.09	"	1	"	"	"	"	
Hexachlorobutadiene	ND	0.5	0.2	"	1	"	"	"	"	
Naphthalene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>	<i>103 %</i>	% Recovery Limits		<i>70-130</i>						<i>"</i>
<i>Surrogate: Toluene-d8</i>	<i>101 %</i>	% Recovery Limits		<i>70-130</i>						<i>"</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>96.8 %</i>	% Recovery Limits		<i>70-130</i>						<i>"</i>

Ion Chromatography

Nitrate as Nitrogen	ND	0.11	0.02	mg/L	1	AVE0362	05/30/12	05/30/12	EPA 300.0	
Nitrite as Nitrogen	ND	0.15	0.02	"	1	"	"	"	"	


Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVE0361	05/29/12	05/29/12	SM5540C	
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Total Recoverable Metals

Aluminum	8120	50.0	24.5	ug/l	1	AVE0369	05/30/12	05/31/12	EPA 200.7	
Arsenic	ND	10.0	1.0	"	1	"	"	"	"	
Boron	276	50.0	0.8	"	1	"	"	"	"	
Iron	7370	20.0	11.5	"	1	"	"	"	"	
Manganese	314	10.0	0.6	"	1	"	"	"	"	

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20


AWL 120529-32 1205317-04RE1 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Total Recoverable Metals

Sodium	306000	2000	1200	ug/l	10	AVE0369	05/30/12	05/31/12	EPA 200.7	
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Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
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AWL 120529-33 1205317-05 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

Gasoline Range Hydrocarbons	ND	50.0	9.0	ug/l	1	AVE0365	05/29/12	05/30/12	EPA 8260B	
Ethanol	ND	20.0	2.6	"	1	"	"	"	"	
TBA	ND	5.0	1.2	"	1	"	"	"	"	
Methyl tert-Butyl Ether	ND	0.5	0.07	"	1	"	"	"	"	
Di-isopropyl ether	ND	0.5	0.07	"	1	"	"	"	"	
Ethyl tert-Butyl Ether	ND	0.5	0.06	"	1	"	"	"	"	
Tert-Amyl Methyl Ether	ND	0.5	0.08	"	1	"	"	"	"	
Dichlorodifluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Chloromethane	ND	0.5	0.1	"	1	"	"	"	"	
Vinyl chloride	ND	0.5	0.08	"	1	"	"	"	"	
Bromomethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroethane	ND	0.5	0.2	"	1	"	"	"	"	
Trichlorofluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichlorotrifluoroethane	ND	1.0	0.1	"	1	"	"	"	"	
Acetone	ND	5.0	0.6	"	1	"	"	"	"	
1,1-Dichloroethene	ND	0.5	0.05	"	1	"	"	"	"	
Iodomethane	ND	0.5	0.09	"	1	"	"	"	"	
Methylene chloride	ND	5.0	0.1	"	1	"	"	"	"	
Carbon disulfide	ND	0.5	0.08	"	1	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
1,1-Dichloroethane	ND	0.5	0.07	"	1	"	"	"	"	
2-Butanone	ND	5.0	0.4	"	1	"	"	"	"	
2,2-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
Bromochloromethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroform	ND	0.5	0.1	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	0.08	"	1	"	"	"	"	
Carbon tetrachloride	ND	0.5	0.1	"	1	"	"	"	"	
1,1-Dichloropropene	ND	0.5	0.08	"	1	"	"	"	"	
Benzene	ND	0.5	0.06	"	1	"	"	"	"	
1,2-Dichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Dibromomethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichloroethene	ND	0.5	0.09	"	1	"	"	"	"	
Bromodichloromethane	ND	0.5	0.1	"	1	"	"	"	"	

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Laboratory Representative

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20

AWL 120529-33 1205317-05 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

1,2-Dichloropropane	ND	0.5	0.1	ug/l	1	AVE0365	05/29/12	05/30/12	"	
cis-1,3-Dichloropropene	ND	0.5	0.08	"	1	"	"	"	"	
4-Methyl-2-pentanone	ND	5.0	0.3	"	1	"	"	"	"	
Toluene	ND	0.5	0.09	"	1	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.5	0.1	"	1	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Tetrachloroethene	ND	0.5	0.2	"	1	"	"	"	"	
1,3-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
2-Hexanone	ND	5.0	0.4	"	1	"	"	"	"	
Dibromochloromethane	ND	0.5	0.08	"	1	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.5	0.09	"	1	"	"	"	"	
Chlorobenzene	ND	0.5	0.08	"	1	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	0.1	"	1	"	"	"	"	
Ethylbenzene	ND	0.5	0.06	"	1	"	"	"	"	
m,p-Xylene	ND	1.0	0.1	"	1	"	"	"	"	
o-Xylene	ND	0.5	0.08	"	1	"	"	"	"	
Xylenes, total	ND	1.0	0.2	"	1	"	"	"	"	
Styrene	ND	0.5	0.08	"	1	"	"	"	"	
Bromoform	ND	0.5	0.1	"	1	"	"	"	"	
Isopropylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
Bromobenzene	ND	0.5	0.09	"	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	0.2	"	1	"	"	"	"	
1,2,3-Trichloropropane	ND	0.5	0.1	"	1	"	"	"	"	
n-Propylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
2-Chlorotoluene	ND	0.5	0.1	"	1	"	"	"	"	
4-Chlorotoluene	ND	0.5	0.2	"	1	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
tert-Butylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
sec-Butylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
1,3-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
4-Isopropyltoluene	ND	0.5	0.1	"	1	"	"	"	"	
1,4-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20

AWL 120529-33 1205317-05 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

n-Butylbenzene	ND	0.5	0.08	ug/l	1	AVE0365	05/29/12	05/30/12	"	
1,2-Dibromo-3-chloropropane	ND	0.5	0.3	"	1	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.5	0.09	"	1	"	"	"	"	
Hexachlorobutadiene	ND	0.5	0.2	"	1	"	"	"	"	
Naphthalene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>	<i>101 %</i>	% Recovery Limits		<i>70-130</i>						"
<i>Surrogate: Toluene-d8</i>	<i>99.4 %</i>	% Recovery Limits		<i>70-130</i>						"
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>96.7 %</i>	% Recovery Limits		<i>70-130</i>						"

Ion Chromatography

Nitrate as Nitrogen	1.76	0.11	0.02	mg/L	1	AVE0362	05/30/12	05/30/12	EPA 300.0	
Nitrite as Nitrogen	ND	0.15	0.02	"	1	"	"	"	"	

Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVE0361	05/29/12	05/29/12	SM5540C	
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Total Recoverable Metals

Aluminum	3110	50.0	24.5	ug/l	1	AVE0369	05/30/12	05/31/12	EPA 200.7	
Arsenic	ND	10.0	1.0	"	1	"	"	"	"	
Boron	328	50.0	0.8	"	1	"	"	"	"	
Iron	2790	20.0	11.5	"	1	"	"	"	"	
Manganese	199	10.0	0.6	"	1	"	"	"	"	

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20

AWL 120529-33 1205317-05RE1 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Total Recoverable Metals

Sodium	309000	2000	1200	ug/l	10	AVE0369	05/30/12	05/31/12	EPA 200.7	
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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20


AWL 120529-34 1205317-06 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

Gasoline Range Hydrocarbons	ND	50.0	9.0	ug/l	1	AVE0365	05/29/12	05/30/12	EPA 8260B	
Ethanol	ND	20.0	2.6	"	1	"	"	"	"	
TBA	ND	5.0	1.2	"	1	"	"	"	"	
Methyl tert-Butyl Ether	ND	0.5	0.07	"	1	"	"	"	"	
Di-isopropyl ether	ND	0.5	0.07	"	1	"	"	"	"	
Ethyl tert-Butyl Ether	ND	0.5	0.06	"	1	"	"	"	"	
Tert-Amyl Methyl Ether	ND	0.5	0.08	"	1	"	"	"	"	
Dichlorodifluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Chloromethane	ND	0.5	0.1	"	1	"	"	"	"	
Vinyl chloride	ND	0.5	0.08	"	1	"	"	"	"	
Bromomethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroethane	ND	0.5	0.2	"	1	"	"	"	"	
Trichlorofluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichlorotrifluoroethane	ND	1.0	0.1	"	1	"	"	"	"	
Acetone	ND	5.0	0.6	"	1	"	"	"	"	
1,1-Dichloroethene	ND	0.5	0.05	"	1	"	"	"	"	
Iodomethane	ND	0.5	0.09	"	1	"	"	"	"	
Methylene chloride	ND	5.0	0.1	"	1	"	"	"	"	
Carbon disulfide	ND	0.5	0.08	"	1	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
1,1-Dichloroethane	ND	0.5	0.07	"	1	"	"	"	"	
2-Butanone	ND	5.0	0.4	"	1	"	"	"	"	
2,2-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
Bromochloromethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroform	ND	0.5	0.1	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	0.08	"	1	"	"	"	"	
Carbon tetrachloride	ND	0.5	0.1	"	1	"	"	"	"	
1,1-Dichloropropene	ND	0.5	0.08	"	1	"	"	"	"	
Benzene	ND	0.5	0.06	"	1	"	"	"	"	
1,2-Dichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Dibromomethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichloroethene	ND	0.5	0.09	"	1	"	"	"	"	
Bromodichloromethane	ND	0.5	0.1	"	1	"	"	"	"	

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20

AWL 120529-34 1205317-06 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

1,2-Dichloropropane	ND	0.5	0.1	ug/l	1	AVE0365	05/29/12	05/30/12	"	
cis-1,3-Dichloropropene	ND	0.5	0.08	"	1	"	"	"	"	
4-Methyl-2-pentanone	ND	5.0	0.3	"	1	"	"	"	"	
Toluene	0.7	0.5	0.09	"	1	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.5	0.1	"	1	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Tetrachloroethene	ND	0.5	0.2	"	1	"	"	"	"	
1,3-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
2-Hexanone	ND	5.0	0.4	"	1	"	"	"	"	
Dibromochloromethane	ND	0.5	0.08	"	1	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.5	0.09	"	1	"	"	"	"	
Chlorobenzene	ND	0.5	0.08	"	1	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	0.1	"	1	"	"	"	"	
Ethylbenzene	ND	0.5	0.06	"	1	"	"	"	"	
m,p-Xylene	ND	1.0	0.1	"	1	"	"	"	"	
o-Xylene	ND	0.5	0.08	"	1	"	"	"	"	
Xylenes, total	ND	1.0	0.2	"	1	"	"	"	"	
Styrene	ND	0.5	0.08	"	1	"	"	"	"	
Bromoform	ND	0.5	0.1	"	1	"	"	"	"	
Isopropylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
Bromobenzene	ND	0.5	0.09	"	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	0.2	"	1	"	"	"	"	
1,2,3-Trichloropropane	ND	0.5	0.1	"	1	"	"	"	"	
n-Propylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
2-Chlorotoluene	ND	0.5	0.1	"	1	"	"	"	"	
4-Chlorotoluene	ND	0.5	0.2	"	1	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
tert-Butylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
sec-Butylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
1,3-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
4-Isopropyltoluene	ND	0.5	0.1	"	1	"	"	"	"	
1,4-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20

AWL 120529-34 1205317-06 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

n-Butylbenzene	ND	0.5	0.08	ug/l	1	AVE0365	05/29/12	05/30/12	"	
1,2-Dibromo-3-chloropropane	ND	0.5	0.3	"	1	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.5	0.09	"	1	"	"	"	"	
Hexachlorobutadiene	ND	0.5	0.2	"	1	"	"	"	"	
Naphthalene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>	<i>103 %</i>	% Recovery Limits		<i>70-130</i>						"
<i>Surrogate: Toluene-d8</i>	<i>98.1 %</i>	% Recovery Limits		<i>70-130</i>						"
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>97.0 %</i>	% Recovery Limits		<i>70-130</i>						"

Ion Chromatography

Nitrate as Nitrogen	0.21	0.11	0.02	mg/L	1	AVE0362	05/30/12	05/30/12	EPA 300.0	
Nitrite as Nitrogen	ND	0.15	0.02	"	1	"	"	"	"	

Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVE0361	05/29/12	05/29/12	SM5540C	
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Total Recoverable Metals

Aluminum	3830	50.0	24.5	ug/l	1	AVE0369	05/30/12	05/31/12	EPA 200.7	
Arsenic	ND	10.0	1.0	"	1	"	"	"	"	
Boron	295	50.0	0.8	"	1	"	"	"	"	
Iron	4040	20.0	11.5	"	1	"	"	"	"	
Manganese	406	10.0	0.6	"	1	"	"	"	"	

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20

AWL 120529-34 1205317-06RE1 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Total Recoverable Metals

Sodium	194000	2000	1200	ug/l	10	AVE0369	05/30/12	05/31/12	EPA 200.7	
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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20


AWL 120529-35 1205317-07 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

Gasoline Range Hydrocarbons	ND	50.0	9.0	ug/l	1	AVE0365	05/29/12	05/30/12	EPA 8260B	
Ethanol	ND	20.0	2.6	"	1	"	"	"	"	
TBA	ND	5.0	1.2	"	1	"	"	"	"	
Methyl tert-Butyl Ether	ND	0.5	0.07	"	1	"	"	"	"	
Di-isopropyl ether	ND	0.5	0.07	"	1	"	"	"	"	
Ethyl tert-Butyl Ether	ND	0.5	0.06	"	1	"	"	"	"	
Tert-Amyl Methyl Ether	ND	0.5	0.08	"	1	"	"	"	"	
Dichlorodifluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Chloromethane	ND	0.5	0.1	"	1	"	"	"	"	
Vinyl chloride	ND	0.5	0.08	"	1	"	"	"	"	
Bromomethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroethane	ND	0.5	0.2	"	1	"	"	"	"	
Trichlorofluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichlorotrifluoroethane	ND	1.0	0.1	"	1	"	"	"	"	
Acetone	ND	5.0	0.6	"	1	"	"	"	"	
1,1-Dichloroethene	ND	0.5	0.05	"	1	"	"	"	"	
Iodomethane	ND	0.5	0.09	"	1	"	"	"	"	
Methylene chloride	ND	5.0	0.1	"	1	"	"	"	"	
Carbon disulfide	ND	0.5	0.08	"	1	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
1,1-Dichloroethane	ND	0.5	0.07	"	1	"	"	"	"	
2-Butanone	ND	5.0	0.4	"	1	"	"	"	"	
2,2-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
Bromochloromethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroform	ND	0.5	0.1	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	0.08	"	1	"	"	"	"	
Carbon tetrachloride	ND	0.5	0.1	"	1	"	"	"	"	
1,1-Dichloropropene	ND	0.5	0.08	"	1	"	"	"	"	
Benzene	ND	0.5	0.06	"	1	"	"	"	"	
1,2-Dichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Dibromomethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichloroethene	ND	0.5	0.09	"	1	"	"	"	"	
Bromodichloromethane	ND	0.5	0.1	"	1	"	"	"	"	

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20

AWL 120529-35 1205317-07 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

1,2-Dichloropropane	ND	0.5	0.1	ug/l	1	AVE0365	05/29/12	05/30/12	"	
cis-1,3-Dichloropropene	ND	0.5	0.08	"	1	"	"	"	"	
4-Methyl-2-pentanone	ND	5.0	0.3	"	1	"	"	"	"	
Toluene	ND	0.5	0.09	"	1	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.5	0.1	"	1	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Tetrachloroethene	ND	0.5	0.2	"	1	"	"	"	"	
1,3-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
2-Hexanone	ND	5.0	0.4	"	1	"	"	"	"	
Dibromochloromethane	ND	0.5	0.08	"	1	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.5	0.09	"	1	"	"	"	"	
Chlorobenzene	ND	0.5	0.08	"	1	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	0.1	"	1	"	"	"	"	
Ethylbenzene	ND	0.5	0.06	"	1	"	"	"	"	
m,p-Xylene	ND	1.0	0.1	"	1	"	"	"	"	
o-Xylene	ND	0.5	0.08	"	1	"	"	"	"	
Xylenes, total	ND	1.0	0.2	"	1	"	"	"	"	
Styrene	ND	0.5	0.08	"	1	"	"	"	"	
Bromoform	ND	0.5	0.1	"	1	"	"	"	"	
Isopropylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
Bromobenzene	ND	0.5	0.09	"	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	0.2	"	1	"	"	"	"	
1,2,3-Trichloropropane	ND	0.5	0.1	"	1	"	"	"	"	
n-Propylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
2-Chlorotoluene	ND	0.5	0.1	"	1	"	"	"	"	
4-Chlorotoluene	ND	0.5	0.2	"	1	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
tert-Butylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
sec-Butylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
1,3-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
4-Isopropyltoluene	ND	0.5	0.1	"	1	"	"	"	"	
1,4-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20

AWL 120529-35 1205317-07 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

n-Butylbenzene	ND	0.5	0.08	ug/l	1	AVE0365	05/29/12	05/30/12	"	
1,2-Dibromo-3-chloropropane	ND	0.5	0.3	"	1	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.5	0.09	"	1	"	"	"	"	
Hexachlorobutadiene	ND	0.5	0.2	"	1	"	"	"	"	
Naphthalene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>	99.0 %	% Recovery Limits		70-130						"
<i>Surrogate: Toluene-d8</i>	99.0 %	% Recovery Limits		70-130						"
<i>Surrogate: 4-Bromofluorobenzene</i>	95.9 %	% Recovery Limits		70-130						"

Ion Chromatography

Nitrate as Nitrogen	2.80	0.11	0.02	mg/L	1	AVE0362	05/30/12	05/30/12	EPA 300.0	
Nitrite as Nitrogen	ND	0.15	0.02	"	1	"	"	"	"	

Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVE0361	05/29/12	05/29/12	SM5540C	
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Total Recoverable Metals

Aluminum	1280	50.0	24.5	ug/l	1	AVE0369	05/30/12	05/31/12	EPA 200.7	
Arsenic	ND	10.0	1.0	"	1	"	"	"	"	
Boron	423	50.0	0.8	"	1	"	"	"	"	
Iron	1450	20.0	11.5	"	1	"	"	"	"	
Manganese	149	10.0	0.6	"	1	"	"	"	"	

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RWQC Central Valley
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Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20

AWL 120529-35 1205317-07RE1 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Total Recoverable Metals

Sodium	317000	2000	1200	ug/l	10	AVE0369	05/30/12	05/31/12	EPA 200.7	
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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20


AWL 120529-36 1205317-08 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

Gasoline Range Hydrocarbons	ND	50.0	9.0	ug/l	1	AVE0365	05/29/12	05/30/12	EPA 8260B	
Ethanol	ND	20.0	2.6	"	1	"	"	"	"	
TBA	ND	5.0	1.2	"	1	"	"	"	"	
Methyl tert-Butyl Ether	ND	0.5	0.07	"	1	"	"	"	"	
Di-isopropyl ether	ND	0.5	0.07	"	1	"	"	"	"	
Ethyl tert-Butyl Ether	ND	0.5	0.06	"	1	"	"	"	"	
Tert-Amyl Methyl Ether	ND	0.5	0.08	"	1	"	"	"	"	
Dichlorodifluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Chloromethane	ND	0.5	0.1	"	1	"	"	"	"	
Vinyl chloride	ND	0.5	0.08	"	1	"	"	"	"	
Bromomethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroethane	ND	0.5	0.2	"	1	"	"	"	"	
Trichlorofluoromethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichlorotrifluoroethane	ND	1.0	0.1	"	1	"	"	"	"	
Acetone	ND	5.0	0.6	"	1	"	"	"	"	
1,1-Dichloroethene	ND	0.5	0.05	"	1	"	"	"	"	
Iodomethane	ND	0.5	0.09	"	1	"	"	"	"	
Methylene chloride	ND	5.0	0.1	"	1	"	"	"	"	
Carbon disulfide	ND	0.5	0.08	"	1	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
1,1-Dichloroethane	ND	0.5	0.07	"	1	"	"	"	"	
2-Butanone	ND	5.0	0.4	"	1	"	"	"	"	
2,2-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	0.08	"	1	"	"	"	"	
Bromochloromethane	ND	0.5	0.2	"	1	"	"	"	"	
Chloroform	ND	0.5	0.1	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	0.08	"	1	"	"	"	"	
Carbon tetrachloride	ND	0.5	0.1	"	1	"	"	"	"	
1,1-Dichloropropene	ND	0.5	0.08	"	1	"	"	"	"	
Benzene	ND	0.5	0.06	"	1	"	"	"	"	
1,2-Dichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Dibromomethane	ND	0.5	0.1	"	1	"	"	"	"	
Trichloroethene	ND	0.5	0.09	"	1	"	"	"	"	
Bromodichloromethane	ND	0.5	0.1	"	1	"	"	"	"	

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20

AWL 120529-36 1205317-08 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

1,2-Dichloropropane	ND	0.5	0.1	ug/l	1	AVE0365	05/29/12	05/30/12	"	
cis-1,3-Dichloropropene	ND	0.5	0.08	"	1	"	"	"	"	
4-Methyl-2-pentanone	ND	5.0	0.3	"	1	"	"	"	"	
Toluene	ND	0.5	0.09	"	1	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.5	0.1	"	1	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	0.09	"	1	"	"	"	"	
Tetrachloroethene	ND	0.5	0.2	"	1	"	"	"	"	
1,3-Dichloropropane	ND	0.5	0.2	"	1	"	"	"	"	
2-Hexanone	ND	5.0	0.4	"	1	"	"	"	"	
Dibromochloromethane	ND	0.5	0.08	"	1	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.5	0.09	"	1	"	"	"	"	
Chlorobenzene	ND	0.5	0.08	"	1	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	0.1	"	1	"	"	"	"	
Ethylbenzene	ND	0.5	0.06	"	1	"	"	"	"	
m,p-Xylene	ND	1.0	0.1	"	1	"	"	"	"	
o-Xylene	ND	0.5	0.08	"	1	"	"	"	"	
Xylenes, total	ND	1.0	0.2	"	1	"	"	"	"	
Styrene	ND	0.5	0.08	"	1	"	"	"	"	
Bromoform	ND	0.5	0.1	"	1	"	"	"	"	
Isopropylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
Bromobenzene	ND	0.5	0.09	"	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	0.2	"	1	"	"	"	"	
1,2,3-Trichloropropane	ND	0.5	0.1	"	1	"	"	"	"	
n-Propylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
2-Chlorotoluene	ND	0.5	0.1	"	1	"	"	"	"	
4-Chlorotoluene	ND	0.5	0.2	"	1	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
tert-Butylbenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.5	0.09	"	1	"	"	"	"	
sec-Butylbenzene	ND	0.5	0.07	"	1	"	"	"	"	
1,3-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
4-Isopropyltoluene	ND	0.5	0.1	"	1	"	"	"	"	
1,4-Dichlorobenzene	ND	0.5	0.1	"	1	"	"	"	"	
1,2-Dichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20

AWL 120529-36 1205317-08 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Volatile Organic Compounds by GC/MS

n-Butylbenzene	ND	0.5	0.08	ug/l	1	AVE0365	05/29/12	05/30/12	"	
1,2-Dibromo-3-chloropropane	ND	0.5	0.3	"	1	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.5	0.09	"	1	"	"	"	"	
Hexachlorobutadiene	ND	0.5	0.2	"	1	"	"	"	"	
Naphthalene	ND	0.5	0.1	"	1	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.5	0.2	"	1	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>	<i>102 %</i>	% Recovery Limits		<i>70-130</i>						"
<i>Surrogate: Toluene-d8</i>	<i>99.0 %</i>	% Recovery Limits		<i>70-130</i>						"
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>96.8 %</i>	% Recovery Limits		<i>70-130</i>						"

Ion Chromatography

Nitrate as Nitrogen	ND	0.11	0.02	mg/L	1	AVE0362	05/30/12	05/30/12	EPA 300.0	
Nitrite as Nitrogen	ND	0.15	0.02	"	1	"	"	"	"	

Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVE0361	05/29/12	05/29/12	SM5540C	
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Total Recoverable Metals

Aluminum	3670	50.0	24.5	ug/l	1	AVE0369	05/30/12	05/31/12	EPA 200.7	
Arsenic	ND	10.0	1.0	"	1	"	"	"	"	
Boron	216	50.0	0.8	"	1	"	"	"	"	
Iron	3810	20.0	11.5	"	1	"	"	"	"	
Manganese	197	10.0	0.6	"	1	"	"	"	"	
Sodium	118000	200	120	"	1	"	"	"	"	

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AVE0365 - EPA 8260B

Blank (AVE0365-BLK1)

Prepared & Analyzed: 05/29/12

Surrogate: Dibromofluoromethane	12.8			ug/l	12.5		103	70-130			
Surrogate: Toluene-d8	12.4			"	12.5		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	12.1			"	12.5		96.8	70-130			
Gasoline Range Hydrocarbons	ND	50.0		"							
Ethanol	ND	20.0		"							
TBA	ND	5.0		"							
Methyl tert-Butyl Ether	ND	0.5		"							
Di-isopropyl ether	ND	0.5		"							
Ethyl tert-Butyl Ether	ND	0.5		"							
Tert-Amyl Methyl Ether	ND	0.5		"							
Dichlorodifluoromethane	ND	0.5		"							
Chloromethane	ND	0.5		"							
Vinyl chloride	ND	0.5		"							
Bromomethane	ND	0.5		"							
Chloroethane	ND	0.5		"							
Trichlorofluoromethane	ND	0.5		"							
Trichlorotrifluoroethane	ND	1.0		"							
Acetone	ND	5.0		"							
1,1-Dichloroethene	ND	0.5		"							
Iodomethane	ND	0.5		"							
Methylene chloride	ND	5.0		"							
Carbon disulfide	ND	0.5		"							
trans-1,2-Dichloroethene	ND	0.5		"							
1,1-Dichloroethane	ND	0.5		"							
2-Butanone	ND	5.0		"							
2,2-Dichloropropane	ND	0.5		"							
cis-1,2-Dichloroethene	ND	0.5		"							
Bromochloromethane	ND	0.5		"							
Chloroform	ND	0.5		"							
1,1,1-Trichloroethane	ND	0.5		"							
Carbon tetrachloride	ND	0.5		"							
1,1-Dichloropropene	ND	0.5		"							
Benzene	ND	0.5		"							
1,2-Dichloroethane	ND	0.5		"							
Dibromomethane	ND	0.5		"							
Trichloroethene	ND	0.5		"							
Bromodichloromethane	ND	0.5		"							
1,2-Dichloropropane	ND	0.5		"							
cis-1,3-Dichloropropene	ND	0.5		"							

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AVE0365 - EPA 8260B

Blank (AVE0365-BLK1)

Prepared & Analyzed: 05/29/12

4-Methyl-2-pentanone	ND	5.0		ug/l
Toluene	ND	0.5		"
trans-1,3-Dichloropropene	ND	0.5		"
1,1,2-Trichloroethane	ND	0.5		"
Tetrachloroethene	ND	0.5		"
1,3-Dichloropropane	ND	0.5		"
2-Hexanone	ND	5.0		"
Dibromochloromethane	ND	0.5		"
1,2-Dibromoethane (EDB)	ND	0.5		"
Chlorobenzene	ND	0.5		"
1,1,1,2-Tetrachloroethane	ND	0.5		"
Ethylbenzene	ND	0.5		"
m,p-Xylene	ND	1.0		"
o-Xylene	ND	0.5		"
Xylenes, total	ND	1.0		"
Styrene	ND	0.5		"
Bromoform	ND	0.5		"
Isopropylbenzene	ND	0.5		"
Bromobenzene	ND	0.5		"
1,1,2,2-Tetrachloroethane	ND	0.5		"
1,2,3-Trichloropropane	ND	0.5		"
n-Propylbenzene	ND	0.5		"
2-Chlorotoluene	ND	0.5		"
4-Chlorotoluene	ND	0.5		"
1,3,5-Trimethylbenzene	ND	0.5		"
tert-Butylbenzene	ND	0.5		"
1,2,4-Trimethylbenzene	ND	0.5		"
sec-Butylbenzene	ND	0.5		"
1,3-Dichlorobenzene	ND	0.5		"
4-Isopropyltoluene	ND	0.5		"
1,4-Dichlorobenzene	ND	0.5		"
1,2-Dichlorobenzene	ND	0.5		"
n-Butylbenzene	ND	0.5		"
1,2-Dibromo-3-chloropropane	ND	0.5		"
1,2,4-Trichlorobenzene	ND	0.5		"
Hexachlorobutadiene	ND	0.5		"
Naphthalene	ND	0.5		"
1,2,3-Trichlorobenzene	ND	0.5		"

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AVE0365 - EPA 8260B

LCS (AVE0365-BS1)

Prepared & Analyzed: 05/29/12

Surrogate: Dibromofluoromethane	12.5			ug/l	12.5		99.8	70-130			
Surrogate: Toluene-d8	12.6			"	12.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	11.9			"	12.5		95.1	70-130			
1,1-Dichloroethene	18.4	0.5		"	20.0		92.0	80-120			
Benzene	19.6	0.5		"	20.0		98.0	80-120			
Trichloroethene	20.2	0.5		"	20.0		101	80-120			
Toluene	20.4	0.5		"	20.0		102	80-120			
Chlorobenzene	21.2	0.5		"	20.0		106	80-120			

LCS Dup (AVE0365-BS1)

Prepared & Analyzed: 05/29/12

Surrogate: Dibromofluoromethane	12.7			ug/l	12.5		102	70-130			
Surrogate: Toluene-d8	12.5			"	12.5		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	12.1			"	12.5		96.8	70-130			
1,1-Dichloroethene	17.9	0.5		"	20.0		89.7	80-120	2.59	15	
Benzene	19.0	0.5		"	20.0		95.1	80-120	3.00	15	
Trichloroethene	19.7	0.5		"	20.0		98.4	80-120	2.56	15	
Toluene	19.8	0.5		"	20.0		98.8	80-120	3.24	15	
Chlorobenzene	20.6	0.5		"	20.0		103	80-120	2.78	15	


Matrix Spike (AVE0365-MS1)

Source: 1205317-01

Prepared: 05/29/12 Analyzed: 05/30/12

Surrogate: Dibromofluoromethane	12.9			ug/l	12.5		103	70-130			
Surrogate: Toluene-d8	12.5			"	12.5		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	12.1			"	12.5		97.1	70-130			
1,1-Dichloroethene	17.9	0.5		"	20.0	ND	89.5	80-120			
Benzene	18.8	0.5		"	20.0	ND	93.9	80-120			
Trichloroethene	19.5	0.5		"	20.0	ND	97.3	80-120			
Toluene	19.5	0.5		"	20.0	ND	97.7	80-120			
Chlorobenzene	20.2	0.5		"	20.0	ND	101	80-120			

Excelchem Environmental Lab.



Laboratory Representative

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AVE0365 - EPA 8260B

Matrix Spike Dup (AVE0365-MSD1)

Source: 1205317-01

Prepared: 05/29/12 Analyzed: 05/30/12

Surrogate: Dibromofluoromethane	12.6			ug/l	12.5		100	70-130			
Surrogate: Toluene-d8	12.5			"	12.5		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	12.1			"	12.5		96.6	70-130			
1,1-Dichloroethene	17.7	0.5		"	20.0	ND	88.7	80-120	0.954	15	
Benzene	18.7	0.5		"	20.0	ND	93.4	80-120	0.534	15	
Trichloroethene	19.4	0.5		"	20.0	ND	97.1	80-120	0.257	15	
Toluene	19.4	0.5		"	20.0	ND	96.9	80-120	0.823	15	
Chlorobenzene	20.3	0.5		"	20.0	ND	101	80-120	0.346	15	

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20

Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AVE0362 - EPA 300.0

Blank (AVE0362-BLK1)

Prepared & Analyzed: 05/30/12

Nitrite as Nitrogen	ND	0.15		mg/L							
Nitrate as Nitrogen	ND	0.11		"							

LCS (AVE0362-BS1)

Prepared & Analyzed: 05/30/12

Nitrite as Nitrogen	3.12	0.15		mg/L	3.05		102	80-120			
Nitrate as Nitrogen	2.22	0.11		"	2.26		98.4	80-120			

Duplicate (AVE0362-DUP1)

Source: 1205317-07

Prepared & Analyzed: 05/30/12

Nitrite as Nitrogen	ND	0.15		mg/L		ND				20	
Nitrate as Nitrogen	2.78	0.11		"		2.80			0.510	20	

Matrix Spike (AVE0362-MS1)

Source: 1205317-05

Prepared & Analyzed: 05/30/12

Nitrite as Nitrogen	3.07	0.15		mg/L	3.05	ND	101	75-125			
Nitrate (NO3)	18.1	0.50		"	10.0	7.82	103	75-125			
Nitrate as Nitrogen	4.09	0.11		"	2.26	1.76	103	75-125			

Matrix Spike Dup (AVE0362-MSD1)

Source: 1205317-05

Prepared & Analyzed: 05/30/12

Nitrite as Nitrogen	3.05	0.15		mg/L	3.05	ND	100	75-125	0.605	20	
Nitrate (NO3)	18.2	0.50		"	10.0	7.82	104	75-125	0.358	20	
Nitrate as Nitrogen	4.11	0.11		"	2.26	1.76	104	75-125	0.358	20	

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20

Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AVE0361 - SM5540C

Blank (AVE0361-BLK1)

Prepared & Analyzed: 05/29/12

MBAS	ND	0.100		mg/L						
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LCS (AVE0361-BS1)

Prepared & Analyzed: 05/29/12


MBAS	0.502	0.100		mg/L	0.500	100	90-110			
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LCS Dup (AVE0361-BSD1)

Prepared & Analyzed: 05/29/12

MBAS	0.550	0.100		mg/L	0.500	110	90-110	9.13	15	
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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20

Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AVE0369 - EPA 200.7

Blank (AVE0369-BLK1)

Prepared: 05/30/12 Analyzed: 05/31/12

Boron	ND	50.0		ug/l							
Aluminum	ND	50.0		"							
Arsenic	ND	10.0		"							
Iron	ND	20.0		"							
Manganese	ND	10.0		"							
Sodium	ND	200		"							

LCS (AVE0369-BS1)

Prepared: 05/30/12 Analyzed: 05/31/12

Aluminum	964	50.0		ug/l	1000		96.4	85-115			
Boron	908	50.0		"	1000		90.8	85-115			
Arsenic	960	10.0		"	1000		96.0	85-115			
Iron	971	20.0		"	1000		97.1	85-115			
Manganese	991	10.0		"	1000		99.1	85-115			
Sodium	959	200		"	1000		95.9	85-115			

LCS Dup (AVE0369-BS1)

Prepared: 05/30/12 Analyzed: 05/31/12

Boron	910	50.0		ug/l	1000		91.0	85-115	0.242	20	
Aluminum	1020	50.0		"	1000		102	85-115	5.22	20	
Arsenic	972	10.0		"	1000		97.2	85-115	1.34	20	
Iron	988	20.0		"	1000		98.8	85-115	1.71	20	
Manganese	1000	10.0		"	1000		100	85-115	0.884	20	
Sodium	981	200		"	1000		98.1	85-115	2.23	20	

Matrix Spike (AVE0369-MS1)


Source: 1205317-01

Prepared: 05/30/12 Analyzed: 05/31/12

Aluminum	1530	50.0		ug/l	1000	477	106	75-125			
Boron	1210	50.0		"	1000	268	94.2	75-125			
Arsenic	1010	10.0		"	1000	4.50	100	75-125			
Iron	1510	20.0		"	1000	530	98.3	75-125			
Manganese	1080	10.0		"	1000	90.5	98.6	75-125			
Sodium	170000	200		"	1000	170000	20.0	75-125			

QL-01

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20

Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AVE0369 - EPA 200.7


Matrix Spike Dup (AVE0369-MSD1)

Source: 1205317-01

Prepared: 05/30/12 Analyzed: 05/31/12

Boron	1210	50.0		ug/l	1000	268	94.1	75-125	0.0827	25	
Aluminum	1590	50.0		"	1000	477	111	75-125	3.40	25	
Arsenic	1010	10.0		"	1000	4.50	100	75-125	0.298	25	
Iron	1510	20.0		"	1000	530	98.3	75-125	0.00	25	
Manganese	1080	10.0		"	1000	90.5	98.6	75-125	0.00	25	
Sodium	176000	200		"	1000	170000	600	75-125	3.36	25	QL-01

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20

Notes and Definitions

QL-01 Sample results for the QC batch were accepted based on LCS/LCSD percent recoveries and RPD values.

ND Analyte not detected at reporting limit.

NR Not reported

Analysis Method

EPA 8260, EPA 8021/8015M

EPA 8270, EPA 8081, EPA 8082, EPA 8141, EPA 8015M (extractable)

Metals

TCLP

Not Specified

Prep Method

EPA 5030B

Water - EPA 3510C, Soil- EPA 3550B

Water- 3005A, Soil- 3050B

EPA 1311

Same as Analysis Method

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20

Excelchem Environmental Labs		1135 W. Sunset Blvd. Suite A Roodin, CA 95765 Ph: 916-543-4445 Fax: 916-543-4449		CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST						
Project Manager: Calvin Yang, Leticia Valadez		Phone #: 916-464-4730		Electronic Data Deliverables Request: <input type="checkbox"/> PDF <input checked="" type="checkbox"/> Geotracker (Global ID) <input type="checkbox"/> Other (please specify)						
Company/Address: Central Valley Regional Water Quality Control Board Sun Center Drive Suite #200 Rancho Cordova, CA 95670		Fax #: 916-464-4800		Email Address: ccyang@waterboards.ca.gov lvaladez@waterboards.ca.gov						
Project Number/P.O.#:		Project Name: MUN Evaluation		Page 1 of 1						
Project Location:		Sampler Name and Signature:		LAB USE ONLY: Requested TAT: 2Wk						
Sample ID	Sampling Date Time	Container	Method Preserved	Matrix		Metals = iron, manganese, aluminum, arsenic, Boron, Sodium	Metals =	Wet	Total	Bottle #
				VOA	PLASTIC					
AWL120529-29	5/29/12 8:19	X	X	X	X	X	X	X	X	01
AWL120529-30	5/29/12 9:52	X	X	X	X	X	X	X	X	02
AWL120529-31	5/29/12 10:19	X	X	X	X	X	X	X	X	03
AWL120529-32	5/29/12 10:46	X	X	X	X	X	X	X	X	04
AWL120529-33	5/29/12 11:47	X	X	X	X	X	X	X	X	05
AWL120529-34	5/29/12 11:55	X	X	X	X	X	X	X	X	06
AWL120529-35	5/29/12 11:10	X	X	X	X	X	X	X	X	07
AWL120529-36	5/29/12 9:17	X	X	X	X	X	X	X	X	08
Relinquished by (sign and print)		Date	Time	Received by (sign and print)		Remarks/Condition of Sample:				
Calvin Yang		5/29/12	13:00	Marta Nguyen						
Relinquished by (sign and print)		Date	Time	Received by Laboratory:		Bill To:				
						Leticia Valadez, Central Valley Regional Water Quality Control Board				

Excelchem Environmental Lab.

[Signature]

Laboratory Representative

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
06/01/12 13:20

Sample Integrity

WORK ORDER 1205317

Date Received: 5/29/12

Section 1 - Sample Arrival Info.

Sample Transport: ONTRAC UPS USPS Walk-In EXCELCHEM Courier Fed-Ex Other: _____
Transported In: Ice Chest Box Hand
Describe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other: _____
Has chilling process begun? Y N Samples Received: Chilled to Touch / Ambient On Ice
Temperature of Samples (°C): 4 Ice Chest Temperature(s) (°C): _____

Section 2 - Bottle/Analysis Info.

	Yes	No	N/A	Comments
Did all bottles arrive unbroken and intact?	<input checked="" type="checkbox"/>			
Did all bottle labels agree with COC?	<input checked="" type="checkbox"/>			
Were correct containers used for the tests requested?	<input checked="" type="checkbox"/>			
Were correct preservations used for the tests requested?	<input checked="" type="checkbox"/>			
Was a sufficient amount of sample sent for tests indicated?	<input checked="" type="checkbox"/>			
Were bubbles present in VOA Vials?: (Volatile Methods Only)		<input checked="" type="checkbox"/>		VOA vials were not individually labeled with the ID.

Section 3 - Summa/Flow regulator Info.

Used Summa#: _____
Unused Summa#: _____
Cleaning Summa#: NA
Regulator#: _____
Was there any visual damage to summa canisters or flow regulators? Explain.

Section 4 - COC Info.

	Completed		Info From Container		Completed		Comments
	Yes	No			Yes	No	
Was COC Received	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		
Date Sampled	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		
Time Sampled	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		
Sample ID	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		
Rush TAT		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Analysis Requested					<input checked="" type="checkbox"/>		
Samples arrived within holding time					<input checked="" type="checkbox"/>		
Any hold times less than 72 hrs					<input checked="" type="checkbox"/>		
Client Name					<input checked="" type="checkbox"/>		
Address/Telephone #					<input checked="" type="checkbox"/>		

Section 5 - Comments / Discrepancies

Was Client notified of discrepancies: Yes No N/A Notified by: _____
Explanations / Comments: _____

Samples Labeled by: MG
Bin #s: P12, D2D
COC Scanned/Attached by: MG
Sample labels reviewed by: _____

Filled Monica
Out by: _____

Date: 5/29/12
Time: 1300

Excelchem Environmental Lab.



Laboratory Representative

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